AMENDMENTS

Please amend the application as indicated hereafter.

In the Claims

Please substitute the following clean copy text for the pending claims of the same number.

(Once Amended) A method for transporting Internet Protocol data over a subscriber television system including a headend, a transmission network, and a plurality of Home Communications Terminals, with at least one Home Communications Terminal authorized for receiving the Internet Protocol data, comprising the steps of:

establishing a subnet connection for transporting the Internet Protocol data from a server in the headend to an external network, wherein the external network is different from the transmission network;

receiving at the headend a request for an Internet Protocol connection from the authorized Home Communications Terminal;

assigning at the headend an Internet Protocol address to the authorized Home Communications Terminal for the duration of the Internet Protocol connection;

establishing a route for the Internet/Protocol data from the authorized Home
Communications Terminal to the server and from the server to the authorized Home
Communications Terminal over the transmission network;

transmitting from the headend to the authorized Home Communications Terminal information regarding the royte for the Internet Protocol connection;

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communicating between the authorized Home Communications Terminal and the external network via the route and the subnet connection; and

releasing the route and assigned Internet Protocol address upon termination of the Internet Protocol connection.

(Once Amended) A method for transporting Internet Protocol data over a subscriber television system including a headend, a transmission network, and a plurality of Home Communications Terminals, with a least one Home Communications Terminal authorized for receiving the Internet Protocol data, comprising the steps of:

establishing a subnet connection for transporting the Internet Protocol data from a server in the headend to an external network, wherein the external network is different from the transmission network;

receiving at the headend a request for an Internet Protocol connection from the authorized Home Communications Terminal, including a Media Access Control (MAC) address associated with the authorized Home Communications Terminal;

assigning at the headend an Internet Protocol address to the authorized Home Communications Terminal for the duration of the Internet Protocol connection;

maintaining in a database in the headend, a relationship between the assigned Internet

Protocol address and the Media Access Control (MAC) address associated with the authorized

Home Communications Terminal, the relationship being maintained for at least the duration of the

Internet Protocol connection;

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establishing a downstream route for the IP data from the server to the authorized Home Communications Terminal over the transmission network within a downstream bandwidth, wherein the downstream bandwidth includes at least a portion of a television program;

establishing an upstream route for the Internet Protocol data from the authorized Home Communications Terminal to the server over the transmission network within an upstream bandwidth, wherein the upstream route uses a protocol selected from Time Division Multiple Access, Slotted-Aloha, and request data slot allocation;

transmitting from the headend to the authorized Home Communications Terminal information regarding the downstream route and the upstream route for the Internet Protocol connection;

communicating the Internet Protocol data between the authorized Home Communications

Terminal and the server via the downstream route and the upstream route, wherein the Internet

Protocol data is encapsulated into packets;

communicating the Internet Protocol data between the server and the external network via the subnet connection; and

releasing the assigned Internet Protocol address, the downstream route and the upstream route upon termination of the Internet Protocol connection.

Protocol data communications route within a television system between the application server and an authorized Home Communications Terminal and between the application server and an external network, the application server comprising:

means for establishing a subnet connection to the external network;

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A3 Cood means for receiving a request for an Internet Protocol connection from an authorized Home Communications Terminal;

means for requesting establishment of an internal communications route for Internet

Protocol data within the television system between the applications server and the authorized

Home Communications Terminal, wherein the internal communications route requested is based

on the type of Internet Protocol data connection required by the authorized Home

Communications Terminal;

means for assigning an Internet Protocol address to the authorized Home Communications Terminal for the duration of the Internet Protocol connection;

a memory for maintaining a database of all Internet Protocol addresses associated with the application server and for maintaining the relationship of the authorized Home

Communications Terminal and the assigned Internet Protocol address associated with the authorized Home Communications Terminal at least for the duration of a Internet Protocol connection;

means for encapsulating the Internet Protocol data received from the external network for communication to the authorized Home Communications Terminal and unencapsulating the Internet Protocol data received from the authorized Home Communications Terminal for communication to the external network; and

means for releasing the internal communications route for Internet Protocol data upon termination of the Internet Protocol connection.

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(Once Amended) A subscriber television system for communicating Internet

Protocol data with an external network, the system comprising:

a Home Communications Terminal capable of encapsulating and unencapsulating the Internet Protocol data;

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a headend, wherein the headend includes:

an interface to an external network for establishing a subnet connection to the external network and for communicating the Internet Protocol data with the external connection,

means for establishing, maintaining, communicating over, and releasing a communications route from the applications server to the Home Communications Terminal within the subscriber television system,

means for encapsulating and unencapsulating the Internet Protocol data for communication with the Home Communications Terminal; and

a transmission network for connecting the Home Communications Terminal to the headend.

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